

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|--------------------|------------------|---------|------------------|
| L1 | 1 | "4271297".PN. | US-PGPUB; USPAT | OR | ON | 2009/12/31 10:35 |
| S1 | 12830 | (spiral\$4 with flow\$4) and @PY<"2004" | US-PGPUB; USPAT | OR | ON | 2009/12/30 14:03 |
| S2 | 132 | (spiral\$4 with flow\$4) and "134".clas. and @PY<"2004" | US-PGPUB; USPAT | OR | ON | 2009/12/30 14:11 |
| S3 | 1741 | (spiral\$4 with flow\$4) and (spiral\$4 same tangent\$6) and @PY<"2004" | US-PGPUB; USPAT | OR | ON | 2009/12/30 14:36 |
| S4 | 1725 | S3 not S2 | US-PGPUB; USPAT | OR | ON | 2009/12/30 14:37 |
| S5 | 16 | S3 not S4 | US-PGPUB; USPAT | OR | ON | 2009/12/30 14:38 |
| S6 | 64066 | (Yamamoto Sano Kobayashi Shibuya).IN. | US-PGPUB; USPAT | OR | ON | 2009/12/30 16:25 |
| S7 | 648 | (Yamamoto Sano Kobayashi Shibuya).IN. and (spiral\$6).clm. | US-PGPUB; USPAT | OR | ON | 2009/12/30 16:26 |
| S8 | 4 | (Yamamoto-Seiichiro Sano-Hiroshi Kobayashi-Shozo Shibuya-Katsushi).IN. and (spiral\$6).clm. | US-PGPUB; USPAT | OR | ON | 2009/12/30 16:27 |
| S9 | 644 | S7 not S8 | US-PGPUB; USPAT | OR | ON | 2009/12/30 16:28 |
| S10 | 1 | "6235147".PN. | US-PGPUB; USPAT | OR | ON | 2009/12/31 08:41 |
| S11 | 572 | ("Suntory Limited" "Suntory Holdings Limited").AS. | US-PGPUB; USPAT | OR | ON | 2009/12/31 09:19 |
| S12 | 21 | ("Suntory Limited" "Suntory Holdings Limited").AS. and (spiral\$4 vortex) | US-PGPUB; USPAT | OR | ON | 2009/12/31 09:19 |
| S13 | 24 | (Suntory).AS. and (spiral\$4 vortex) | US-PGPUB; USPAT | OR | ON | 2009/12/31 09:24 |
| S14 | 3 | S13 not S12 | US-PGPUB; USPAT | OR | ON | 2009/12/31 09:25 |
| S15 | 1 | "20070017552".PN. | US-PGPUB; USPAT | OR | ON | 2009/12/31 09:26 |
| S16 | 2 | ("Suntory Limited" "Suntory Holdings Limited" Suntory).AS. and (discharg\$4 with solid) | US-PGPUB; USPAT | OR | ON | 2009/12/31 09:27 |
| S17 | 0 | ("Suntory Limited" "Suntory Holdings Limited" Suntory).AS. and spiral\$4 and tangent\$6 | US-PGPUB; USPAT | OR | ON | 2009/12/31 09:27 |
| S18 | 6 | ("Suntory Limited" "Suntory Holdings Limited" Suntory).AS. and spiral\$4 and flow | US-PGPUB; USPAT | OR | ON | 2009/12/31 09:27 |

EAST Search History (Prior Art)

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|-----|------|---|---|----|----|------------------|
| S19 | 3787 | spiral\$4 and tangent\$6 | FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/31 09:34 |
| S20 | 378 | (spiral\$4 and tangent\$6) and clean\$4 | FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/31 09:34 |
| S21 | 190 | (134/22.1 134/22.18 134/34 134/42).ccls. and spiral\$4 | US-PGPUB; USPAT | OR | ON | 2009/12/31 10:12 |

EAST Search History (Interference)

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